

500.33021CX5

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): T. NINOMIYA, et al

Serial No.: 09/933,805

Filed: August 22, 2001

For: STORAGE SYSTEM HAVING DATA FORMAT CONVERSION  
FUNCTION (Amended)

Group: 2186

Examiner: H. Patel

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97 & 1.98**

**MS Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

January 21, 2005

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration.


This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

Each of the documents listed on the attached form equivalent to Form PTO-1449 is in the English language.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. Deposit Account No. 50-1417 (500.33021CX5) please credit any excess fees to such deposit account.

Respectfully submitted,

 32,846  
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Carl I. Brundidge  
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MATTINGLY, STANGER & MALUR, P.C.

CIB/jdc  
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| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce (Rev. 4/92) Patent and Trademark<br>Office | ATTY. DOCKET NO.<br><br><b>500.33021CX5</b> | SERIAL NO.<br><br><b>09/933,805</b> |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b>                                       | APPLICANT<br><b>NINOMIYA, et al</b>         |                                     |
| (Use several sheets if necessary)  | FILING DATE<br><b>August 22, 2001</b>       | GROUP<br><b>2186</b>                |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |  | DOCUMENT NUMBER |   |   |   |   |   |   | DATE  | NAME          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--|-----------------|---|---|---|---|---|---|-------|---------------|-------|----------|-------------------------------|
|                     |  | 4               | 4 | 9 | 4 | 1 | 5 | 6 | 1/85  | Kadison et al |       |          |                               |
|                     |  | 4               | 5 | 0 | 9 | 1 | 1 | 3 | 4/85  | Heath         |       |          |                               |
|                     |  | 4               | 6 | 0 | 4 | 6 | 8 | 6 | 8/86  | Reiter        |       |          |                               |
|                     |  | 4               | 6 | 8 | 8 | 1 | 7 | 0 | 8/97  | Waite et al   |       |          |                               |
|                     |  | 5               | 1 | 5 | 5 | 8 | 4 | 5 | 10/92 | Beal et al    |       |          |                               |
|                     |  | 5               | 2 | 3 | 5 | 6 | 8 | 9 | 8/93  | Baker et al   |       |          |                               |
|                     |  | 5               | 2 | 4 | 5 | 7 | 0 | 3 | 9/93  | Hubert        |       |          |                               |
|                     |  | 5               | 3 | 6 | 7 | 6 | 9 | 5 | 11/94 | Narad et al   |       |          |                               |
|                     |  | 5               | 3 | 7 | 9 | 3 | 8 | 2 | 1/95  | Work et al    |       |          |                               |
|                     |  | 5               | 4 | 3 | 8 | 6 | 7 | 4 | 8/95  | Keele et al   |       |          |                               |
|                     |  | 5               | 5 | 9 | 0 | 3 | 1 | 1 | 12/96 | Matsushima    |       |          |                               |

## FOREIGN PATENT DOCUMENTS

[illegible]

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

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| EXAMINER | DATE CONSIDERED |
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**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])